

CERTIFICATE OF ANALYSIS no: P-132242

Date of issue: 19/3/2026

CUSTOMER: SUN GROVE FOODS INC	PHONE : 28210-33302
MULTICHROM.LAB CODE No : P-132242	Date of analysis (from): 16/3/2026
COMMODITY ACCORDING TO	(to): 19/3/2026
CUSTOMER: EXTRA VIRGIN OLIVE OIL	SAMPLE CONDITION: NORMAL
RECEIVING DATE: 16/3/2026	SAMPLING BY: CUSTOMER
SEALS: None	
DATA: PICUAL	

RESULTS

Determination	LoD	LoQ	Method	Unit	Result	Limit ¹
Free fatty acid content (as oleic acid)			COI/T.20/DOC. 34/Rev. 1 – 2017	%	0,31	≤ 0,80
K Coefficients			COI/T.20/DOC.19/Rev. 5/2019	-	-	-
K268				-	0,181	≤ 0,22
K232				-	1,698	≤ 2,50
DK				-	-0,004	≤ 0,01
Peroxide Value			COI/T.20/DOC.35/Rev. 1/2017	meqO ₂ /kg	5,9	≤20,0
Total Halogenated Volatile Solvents	0,01		2568/91 ^a	mg/kg	<0,04	≤ 0,2
ΔECN42			COI/T.20/Doc.No.20/Rev.4/2017	-	0,05	≤ 0,20
Stigmastadienes	0,01		COI/T.20/Doc. No 16/Rev. 2 2017 ^a	mg/kg	0,03	≤ 0,05
1,2-Diglycerides (Dag's)			COI/T.20/Doc. No 32 2013 ^a	%	90	-
Biophenols (as tyrosol)			COI/T.20/Doc. No 29/ Rev 1 2017 ^a	mg/kg	402	-
Hydroxytyrosol (3,4 DHPEA)					9	-
Tyrosol (p-HPEA)					8	-
Oleacin (Dialdehydic form of Decarboxymethyl Oleuropein aglicon or 3,4 DHPEA-EDA)					127	-
Oleocanthal (Dialdehydic form of Decarboxymethyl ligstroside aglicon or p, HPEA-EDA)					77	-
Lignans					39	-
Oleuropein aglycon (dialdehyde, oxidized and not aldehyde & hydroxylic forms)					182	-
Ligstroside aglycon (dialdehyde, oxidized and not aldehyde & hydroxylic forms)					42	-
Hydroxytyrosol and its derivatives for health claim Regulation EU 432/2012				mg/20g	9,3	≥ 5

^a Method outside the scope of accreditation. ^d Compound outside the scope of accreditation. ^o From collaborative Lab. ^k From collaborative Lab with accreditation.

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Pyropheophytins (of total Pheophytins) (PPP)		0,1	ISO 29841:2009 ^a	%	3,1	-
Ethylesters of Fatty Acids	1	2	COI/T.20/Doc. 28/Rev.4 - 2024	mg/kg	6,3	≤ 35
Fatty Acid Composition			COI/T.20/DOC. 33/Rev. 1 – 2017	%	-	-
C14:0 (Myristic)					0,01	≤ 0,03
C16:0 (Palmitic)					12,92	7,00-20,00
C16:1 (Palmitoleic)					0,91	0,30-3,50
C17:0 (Heptadecanoic)					0,03	≤ 0,40
C17:1 (Heptadecenoic)					0,06	≤ 0,60
C18:0 (Stearic)					2,75	0,50-5,00
C18:1 (Oleic) (ω9)					72,88	55,00-85,00
C18:2 (Linoleic) (ω6)					9,33	2,50-21,00
C18:3 (Linolenic) (ω3)					0,69	≤ 1,00
C20:0 (Arachidic)					0,48	≤ 0,60
C20:1 (Eicosenoic)					0,28	≤ 0,50
C22:0 (Behenic)					0,12	≤ 0,20
C22:1 (Erucic) (ω9)					<0,01	-
C24:0 (Lignoceric)					0,07	≤ 0,20
trans C18:1					0,01	≤ 0,05
trans C18:2 + trans C18:3					0,01	≤ 0,05
Sterols			COI/T.20/Doc.no.26/ Rev.5/2020	mg/kg	1357	≥ 1000
Cholesterol				%	0,3	≤ 0,5
Brasicasterol				%	<0,1	≤ 0,1
24-methylcholesterol				%	0,1	-
Campesterol (Camps.)				%	3,0	≤ 4,0
Campestanol				%	0,1	-
Stigmasterol				%	1,1	< Campes.
d7-campestanol				%	0,0	-
d5,23stigm/dienol				%	0,0	-
Clerosterol				%	1,0	-
B-sitosterol				%	85,6	-

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Sitostanol				%	0,6	-
d5-avenasterol				%	6,5	-
d5,24-stigm/dienol				%	0,5	-
d7-stigmastenol				%	0,7	≤ 0,5
d7-avenasterol				%	0,5	-
Erythrodiol				%	1,7	-
Uvaol				%	0,1	-
Erythrodiol+uvaol				%	1,8	≤ 4,5
Total b-sitosterol				%	95,1	≥ 93,0
Waxes (C42+C44+C46)			COI/T.20/Doc. No 28/Rev. 4/ 2024	mg/kg ^r	59	≤ 150
Polycyclic Aromatic Hydrocarbons			Internal (GC/MS) ^e	µg/kg	-	-
Benzo(a)anthracene	0,2	0,5			n.d.	-
Chrysene	0,2	0,5			n.d.	-
Benzo(b)Phthoranthene	0,2	0,5			n.d.	-
Benzo(a)Pyrene	0,2	0,5			n.d.	≤ 2
Total Benzo(a)Pyrene + Benzo(a)Anthracene + Chrysene + Benzo(b)Phthoranthene				µg/kg	n.d.	≤ 10
Metals			Internal (by ICP-MS) ^k		-	-
Iron	0,003	0,01		mg/kg	Not detected	≤ 1,5
Copper	0,003	0,01		mg/kg	Not detected	≤ 0,4
Arsenic	0,006	0,02		mg/kg	Not detected	≤ 0,1
Lead	0,003	0,01		mg/kg	Not detected	≤ 0,1
Total Dioxins (OMS-PCDD/F- TEQ)			EN 16215 ^e	pg/g	<0,137	≤ 0,75
Total Dioxins and PCB's Dioxin Like			EN 16215 ^e - EC771/2017 ^e	pg/g	0,269	≤ 1,25
PCB's Dioxin Like (OMS-PCB- TEQ)			EN 16215 ^e - EC771/2017 ^e	pg/g	0,132	-
Mineral Oil Hydrocarbons (MOSH/MOAH)			Internal LC/GC on line ^o	mg/kg	-	-
MOSH (C10-C16)		1			<1,0	-

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DINCH (1,2-Cyclohexane dicarboxylic acid diisononyl ester)	0,4	1,25			n.d.	-
DEHT (Bis(2-ethylhexyl) terephthalate)	0,2	0,5			1.0	-
DNOP (Phthalic acid, bis-n-octyl ester)	0,2	0,5			n.d.	-
DINP (Phthalic acid, bis-7-methyloctyl ester) ^d	0,2	0,5			0.6	-


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